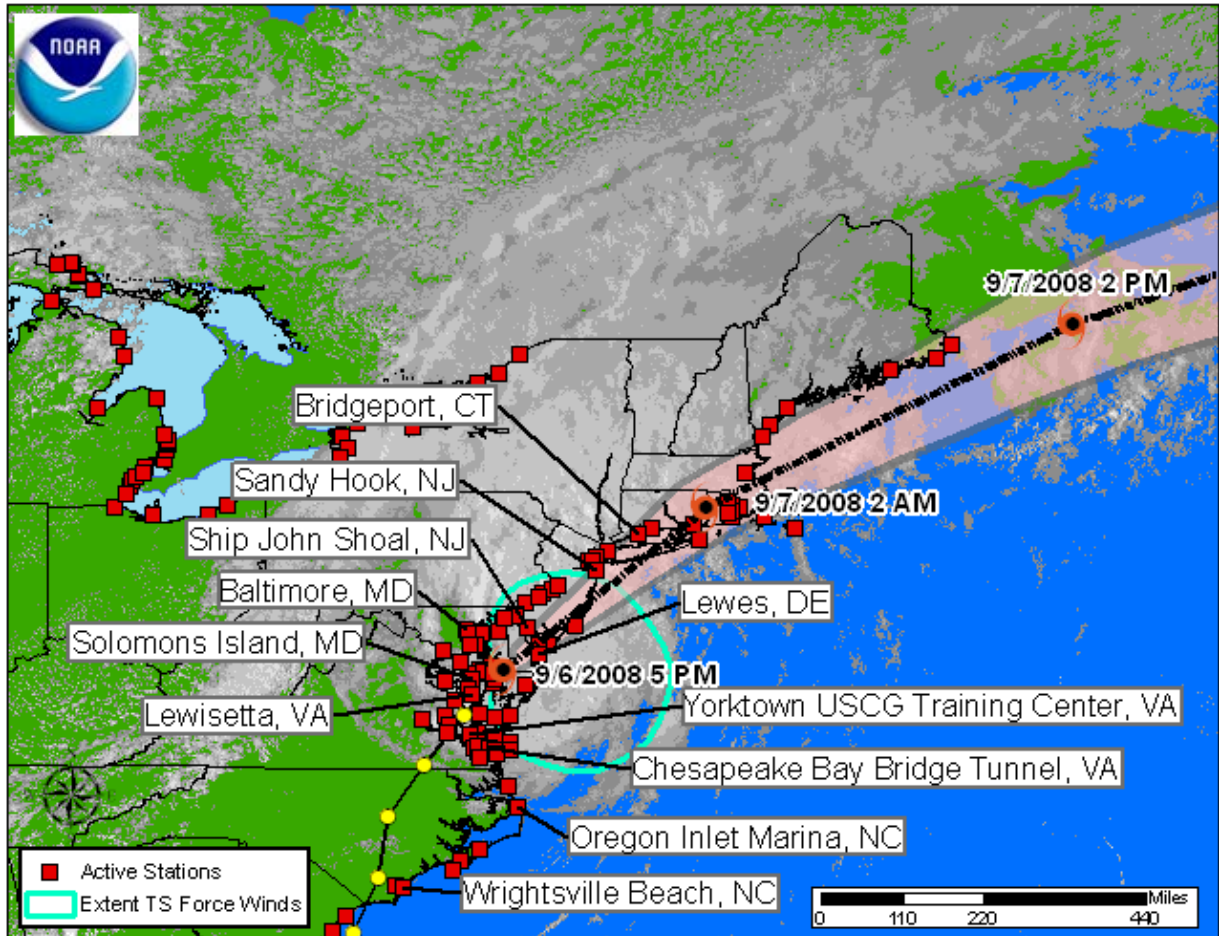




Tropical Storm HANNA QuickLook
Posted: 18:00 EDT 09/06/2008

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 09/06/2008 18:00 EDT, water levels in the mid to northern Chesapeake Bay are generally elevated 1-2 feet above predicted. Water levels are below predictions by up to 1 foot in the lower Chesapeake Bay. Water levels are rising along the Atlantic coast of Delaware and New Jersey by about 1 to 1.5 feet. Ship John Shoal, NJ within Delaware Bay is showing water levels about 2.3 feet above predictions. Water levels from North Carolina to Florida are returning to normal with a few stations still showing elevated values. Barometric pressure is falling from Maryland to Connecticut. Wind gusts of 35-40 knots have been measured at Baltimore, Lewes and Ship John Shoal.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Solomons Island, VA: Next predicted high tide is 1.50 ft (0.46 m) at 09/06/2008 20:09 EDT.

Baltimore, MD: Next predicted high tide is 1.81 ft (0.55 m) at 09/07/2008 00:48 EDT.

Lewes, DE: Next predicted high tide is 3.32 ft (1.01 m) at 09/07/2008 02:18 EDT.

Ship John Shoal, NJ: Next predicted high tide is 5.10 ft (1.55 m) at 09/07/2008 03:39 EDT.

Sandy Hook, NJ: Next predicted high tide is 3.90 ft (1.19 m) at 09/07/2008 01:39 EDT.

Bridgeport, CT: Next predicted high tide is 5.84 ft (1.78 m) at 09/07/2008 05:18 EDT.

Lewisetta, VA: Next predicted high tide is 1.54 ft (0.47 m) at 09/06/2008 19:18 EDT.

Yorktown USCG Training Center, VA: Next predicted high tide is 2.01 ft (0.61 m) at 09/07/2008 02:48 EDT.

Chesapeake Bay Bridge Tunnel, VA: Next predicted high tide is 2.18 ft (0.66 m) at 09/07/2008 01:48 EDT.

Oregon Inlet Marina, NC: Next predicted high tide is 0.99 ft (0.31 m) at 09/07/2008 01:48 EDT.

Wrightville Beach, NC: Next predicted high tide is 3.33 ft (1.01 m) at 09/07/2008 01:03 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst: PFF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL STORM HANNA ADVISORY NUMBER 40

500 PM EDT SAT SEP 06 2008

AT 5 PM EDT THE TROPICAL STORM WARNING IS DISCONTINUED SOUTH OF THE NORTH CAROLINA/VIRGINIA BORDER. A TROPICAL STORM WARNING IS NOW IN EFFECT FROM NORTH OF THE NORTH CAROLINA/VIRGINIA BORDER TO MERRIMACK RIVER MASSACHUSETTS...INCLUDING PAMLICO AND ALBEMARLE SOUNDS...ALL OF CHESAPEAKE BAY...THE TIDAL POTOMAC... WASHINGTON D.C...DELAWARE BAY...NEW YORK HARBOR...LONG ISLAND SOUND...BLOCK ISLAND...MARTHA'S VINEYARD AND NANTUCKET.

AT 500 PM EDT THE CENTER OF TROPICAL STORM HANNA WAS LOCATED JUST EAST OF CAMBRIDGE MARYLAND. THIS POSITION IS ALSO ABOUT 40 MILES WEST-NORTHWEST OF OCEAN CITY MARYLAND AND ABOUT 100 MILES SOUTHWEST OF ATLANTIC CITY NEW JERSEY.

HANNA IS MOVING TOWARD THE NORTHEAST NEAR 28 MPH. THIS GENERAL MOTION IS EXPECTED TO CONTINUE WITH AN INCREASE IN FORWARD SPEED DURING THE NEXT COUPLE OF DAYS. ON THE FORECAST TRACK...THE CENTER OF HANNA WILL CROSS THE EASTERN MID-ATLANTIC STATES THIS EVENING...AND MOVE NEAR OR OVER SOUTHERN NEW ENGLAND SUNDAY MORNING. THE CENTER IS FORECAST TO PASS NEAR OR OVER THE CANADIAN MARITIMES SUNDAY AFTERNOON.

MAXIMUM SUSTAINED WINDS ARE NEAR 50 MPH WITH HIGHER GUSTS. LITTLE CHANGE IN STRENGTH IS FORECAST DURING THE NEXT COUPLE OF DAYS. HOWEVER...HANNA IS FORECAST TO LOSE TROPICAL CHARACTERISTICS ON SUNDAY.

TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 200 MILES FROM THE CENTER.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 994 MB...29.35 INCHES.

STORM SURGE FLOODING OF 1 TO 3 FEET ABOVE NORMAL TIDE LEVELS...WITH LOCALLY HIGHER LEVELS IN BAYS AND ACCOMPANIED BY LARGE AND DANGEROUS BATTERING WAVES...IS EXPECTED IN THE WARNING AREA. COASTAL STORM SURGE FLOODING ALONG THE ATLANTIC COASTS OF SOUTH CAROLINA AND NORTH CAROLINA...INCLUDING THE PAMLICO AND ABLEMARLE SOUNDS... SHOULD GRADUALLY SUBSIDE TODAY.

HANNA IS EXPECTED TO PRODUCE RAINFALL ACCUMULATIONS OF 3 TO 6 INCHES FROM THE NORTHERN MID-ATLANTIC STATES NORTHEASTWARD THROUGH NEW ENGLAND...WITH ISOLATED MAXIMUM AMOUNTS OF 8 INCHES POSSIBLE. THESE RAINFALL AMOUNTS COULD PRODUCE FLASH FLOODING ACROSS THESE REGIONS.

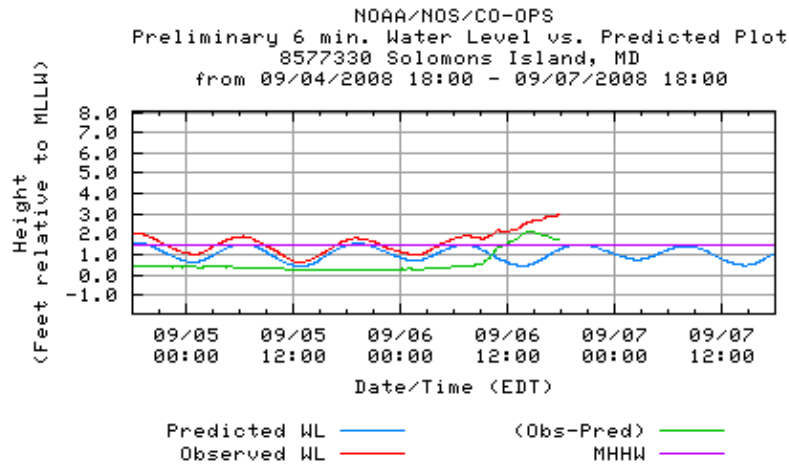
ISOLATED TORNADOES ARE POSSIBLE TONIGHT OVER THE COASTAL AREAS OF SOUTHERN NEW ENGLAND.

FORECASTER BEVEN

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Solomons Island - Water Level](#), [Solomons Island - Winds](#), [Solomons Island - Air/Water Temp](#), [Solomons Island - Barometric](#), [Baltimore - Water Level](#), [Baltimore - Winds](#), [Baltimore - Barometric](#), [Baltimore - Air/Water Temp](#), [Lewes - Water Level](#), [Lewes - Winds](#), [Lewes - Barometric](#), [Lewes - Air/Water Temp](#), [Ship John Shoal - Water Level](#), [Ship John Shoal - Winds](#), [Ship John Shoal - Barometric](#), [Ship John Shoal - Air/Water Temp](#), [Sandy Hook - Water Level](#), [Sandy Hook - Winds](#), [Sandy Hook - Barometric](#), [Sandy Hook - Air/Water Temp](#), [Bridgeport - Water Level](#), [Bridgeport - Winds](#), [Bridgeport - Barometric](#), [Bridgeport - Air/Water Temp](#), [Lewisetta - Water Level](#), [Lewisetta - Winds](#), [Lewisetta - Barometric](#), [Yorktown USCG Training Center - Water Level](#), [Yorktown USCG Training Center - Winds](#), [Yorktown USCG Training Center - Barometric](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#), [Oregon Inlet Marina - Water Level](#), [Oregon Inlet Marina - Winds](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#).

Solomons Island, MD - Station Map [Return to List](#)

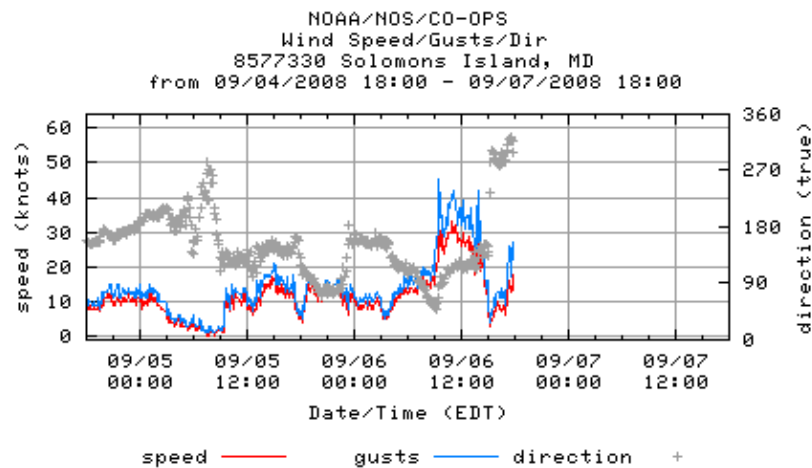


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 3.01 ft. Predicted: 1.25 ft. Residual: 1.76 ft.**

Historical Maximum Water Level: 08/13/1955, 2.8 ft. above **MHHW**

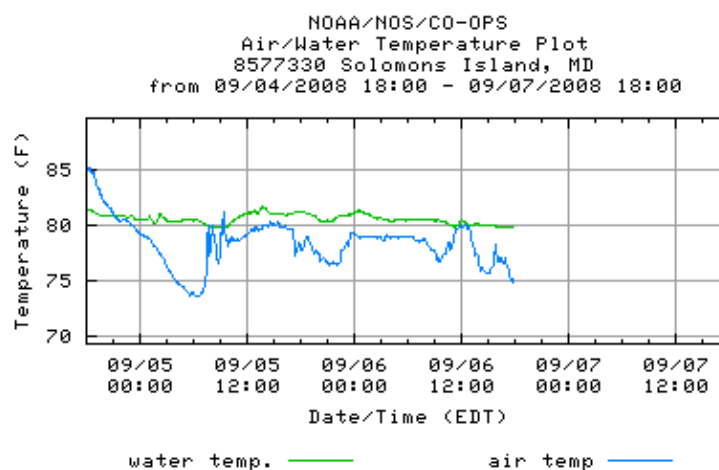
Solomons Island, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 18 knots Gusts: 26 knots Direction: 300° T

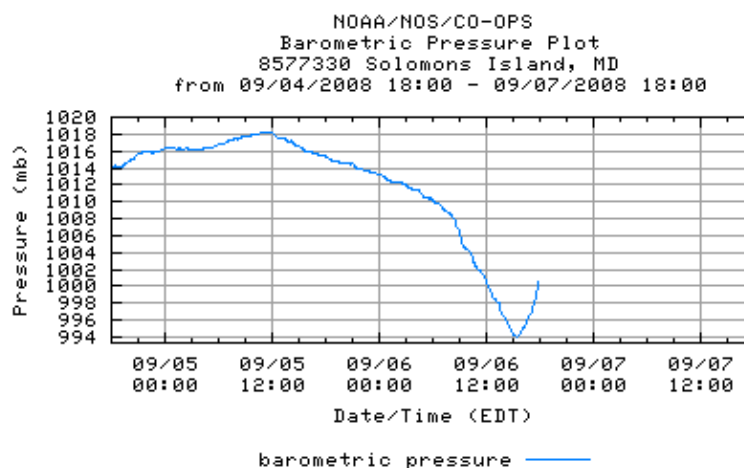
Solomons Island, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Water Temperature: 79.9° F Air Temperature: 74.8° F

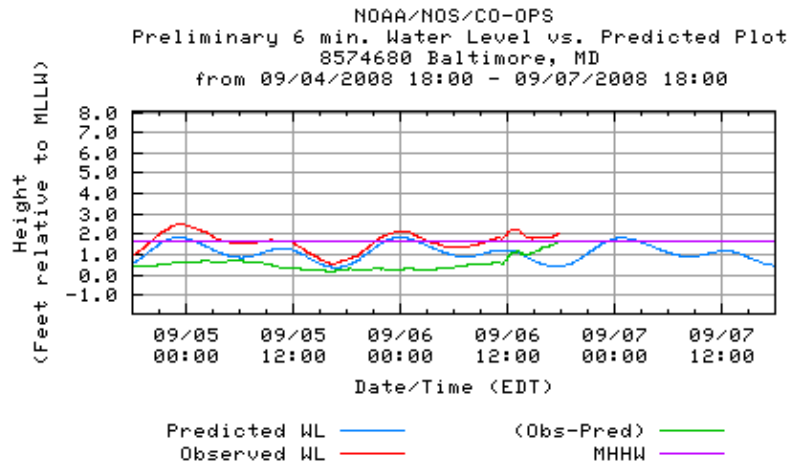
Solomons Island, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Barometric Pressure: 1000.5 mb

Baltimore, MD - Station Map [Return to List](#)

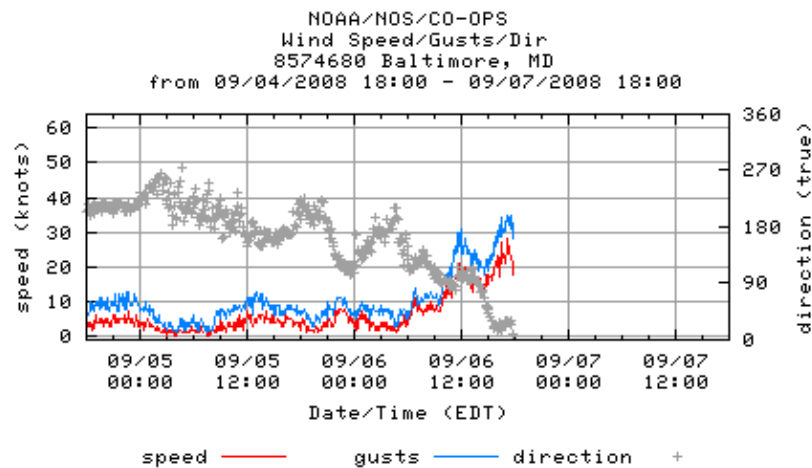


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 2.07 ft. Predicted: 0.41 ft. Residual: 1.66 ft.**

Historical Maximum Water Level: 08/23/1933, 6.04 ft. above **MHHW**

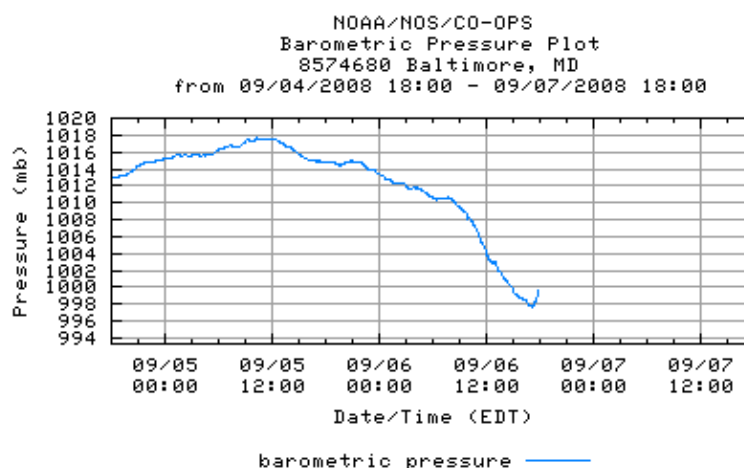
Baltimore, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 18 knots Gusts: 28 knots Direction: 007° T

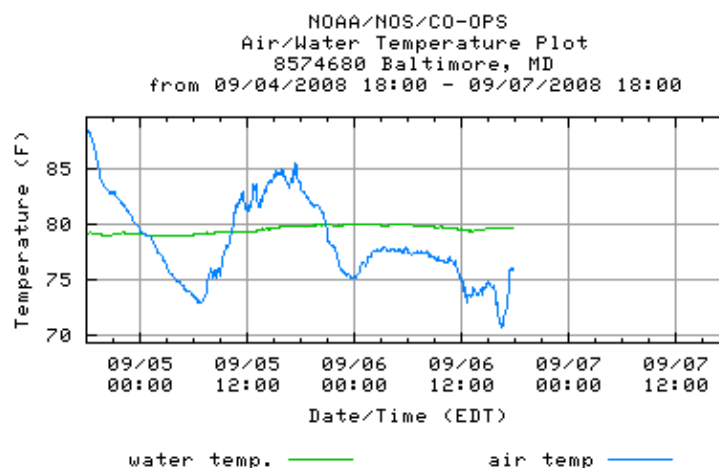
Baltimore, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Barometric Pressure: 999.6 mb

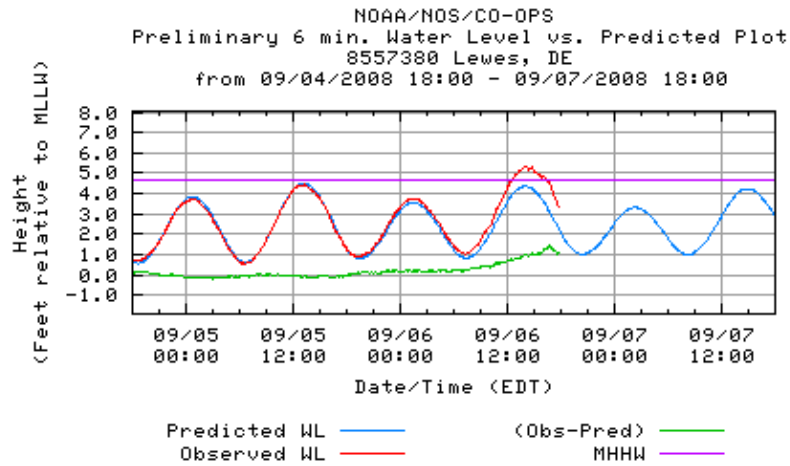
Baltimore, MD - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Water Temperature: 79.6° F Air Temperature: 75.9° F

Lewes, DE - Station Map [Return to List](#)

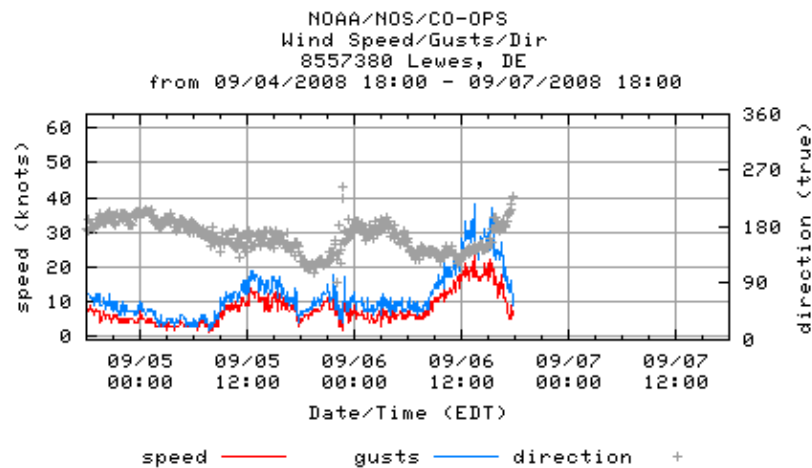


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 3.31 ft. Predicted: 2.23 ft. Residual: 1.08 ft.**

Historical Maximum Water Level: 03/06/1962, 4.57 ft. above **MHHW**

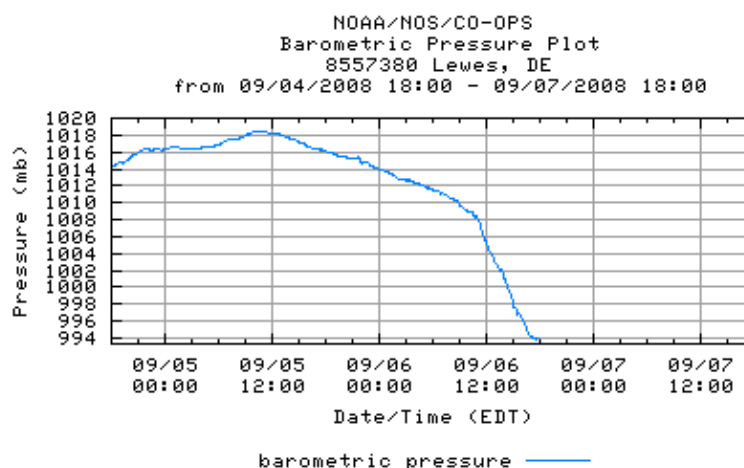
Lewes, DE - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:42 (EDT)

Wind Speed: 6 knots Gusts: 9 knots Direction: 229° T

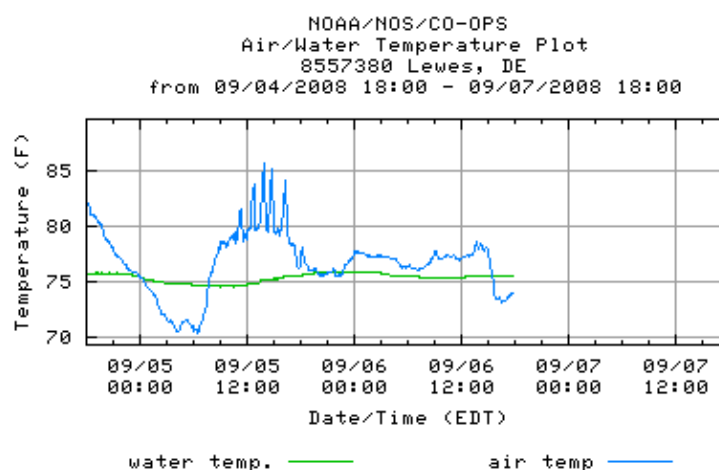
Lewes, DE - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:42 (EDT)

Barometric Pressure: 993.9 mb

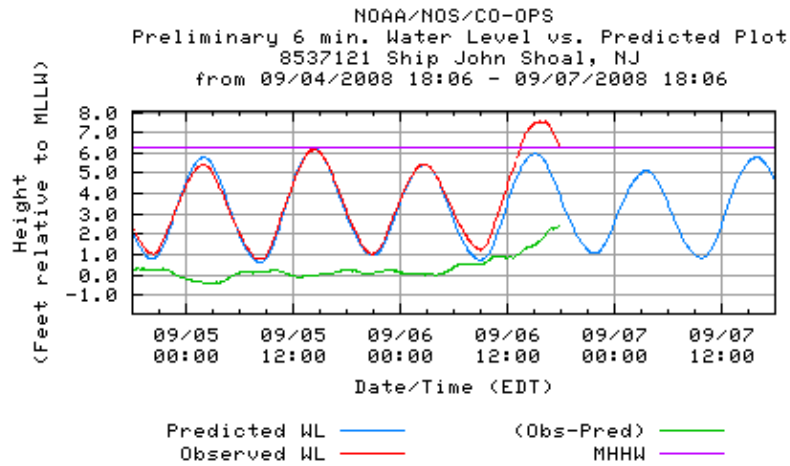
Lewes, DE - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:42 (EDT)

Water Temperature: 75.5° F Air Temperature: 74.0° F

Ship John Shoal, NJ - Station Map [Return to List](#)

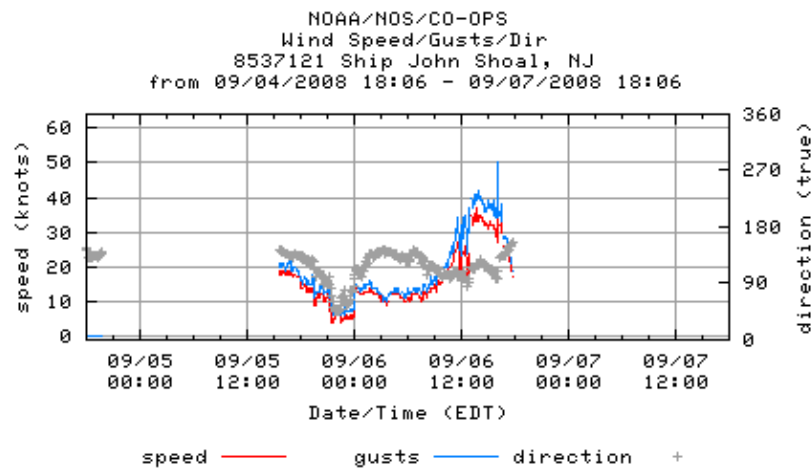


Last Observed Sample: 09/06/2008 17:54 (EDT)

Relative to **MLLW**: **Observed: 6.35 ft. Predicted: 3.97 ft. Residual: 2.38 ft.**

Historical Maximum Water Level: 01/03/2003, 2.33 ft. above **MHHW**

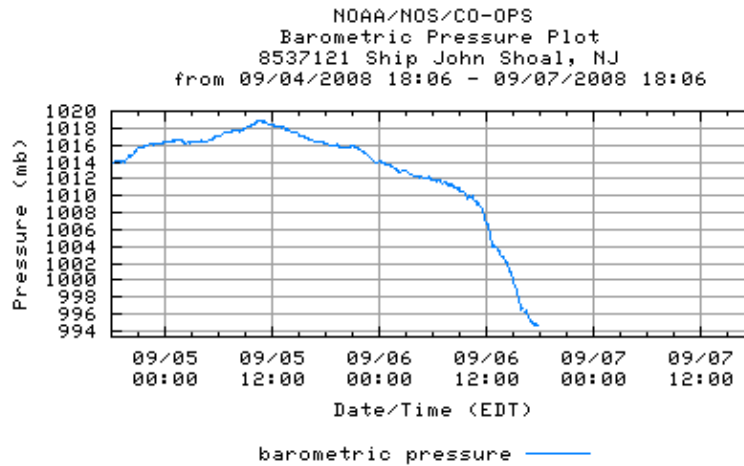
Ship John Shoal, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:54 (EDT)

Wind Speed: 17 knots Gusts: 19 knots Direction: 156° T

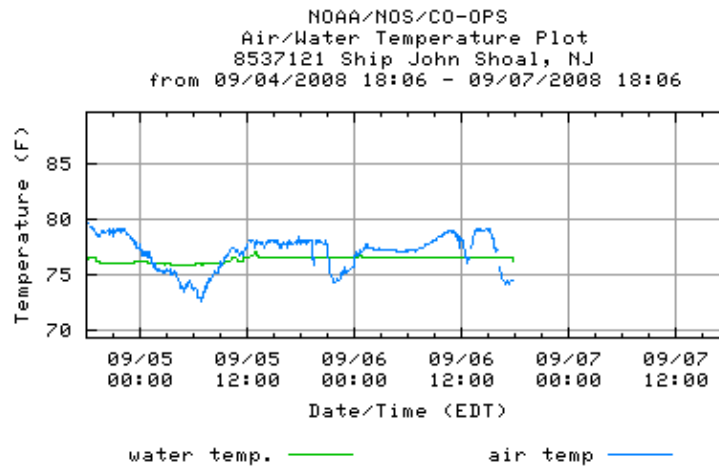
Ship John Shoal, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:54 (EDT)

Barometric Pressure: 994.7 mb

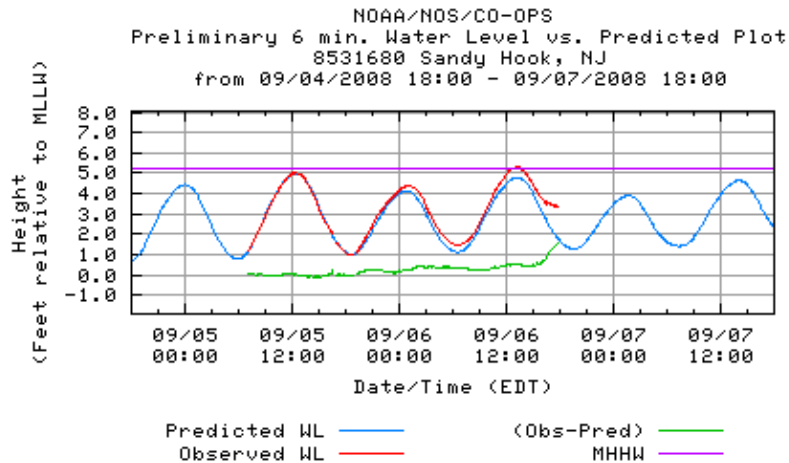
Ship John Shoal, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:54 (EDT)

Water Temperature: 76.3° F Air Temperature: 74.5° F

Sandy Hook, NJ - Station Map [Return to List](#)

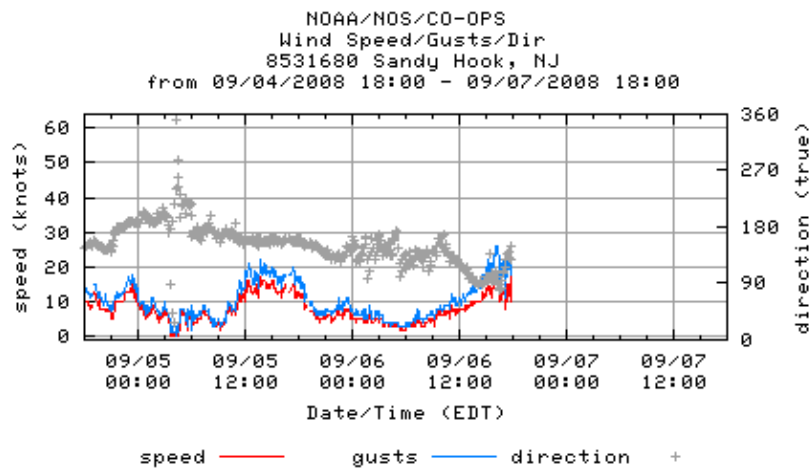


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 3.37 ft. Predicted: 1.77 ft. Residual: 1.60 ft.**

Historical Maximum Water Level: 09/12/1960, 4.86 ft. above **MHHW**

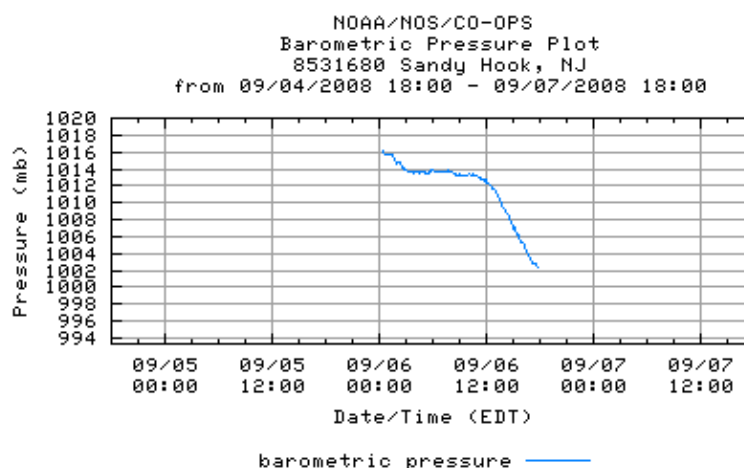
Sandy Hook, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 18 knots Gusts: 26 knots Direction: 127° T

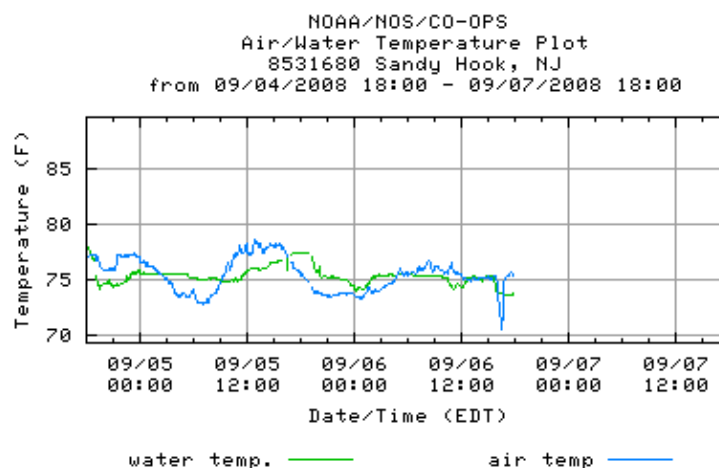
Sandy Hook, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Barometric Pressure: 1002.3 mb

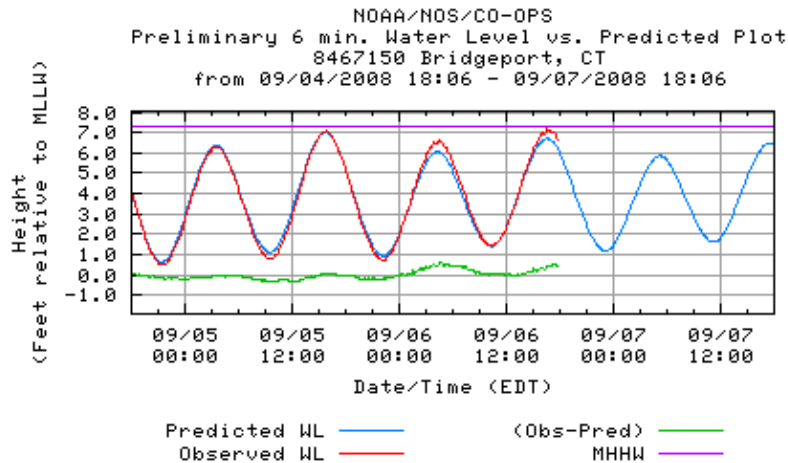
Sandy Hook, NJ - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Water Temperature: 73.6° F Air Temperature: 75.4° F

Bridgeport, CT - Station Map [Return to List](#)

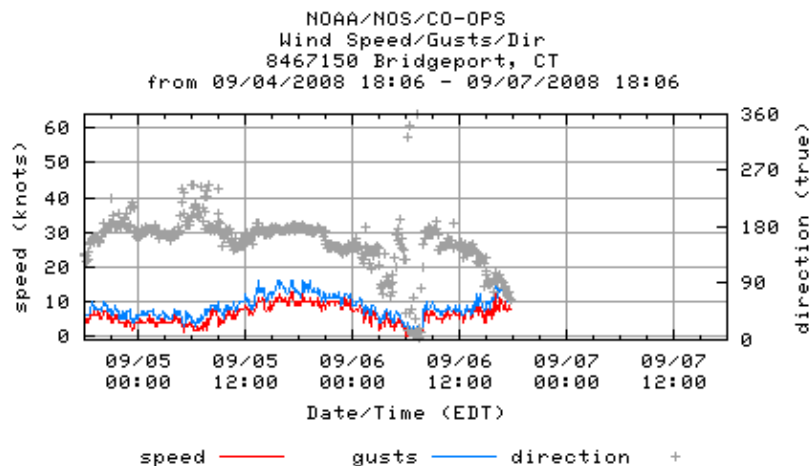


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 6.67 ft. Predicted: 6.24 ft. Residual: 0.43 ft.**

Historical Maximum Water Level: 09/21/1938, 4.95 ft. above **MHHW**

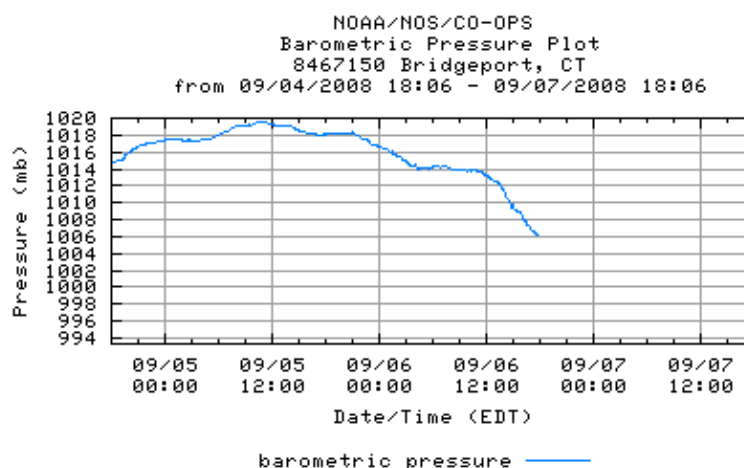
Bridgeport, CT - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 8 knots Gusts: 11 knots Direction: 063° T

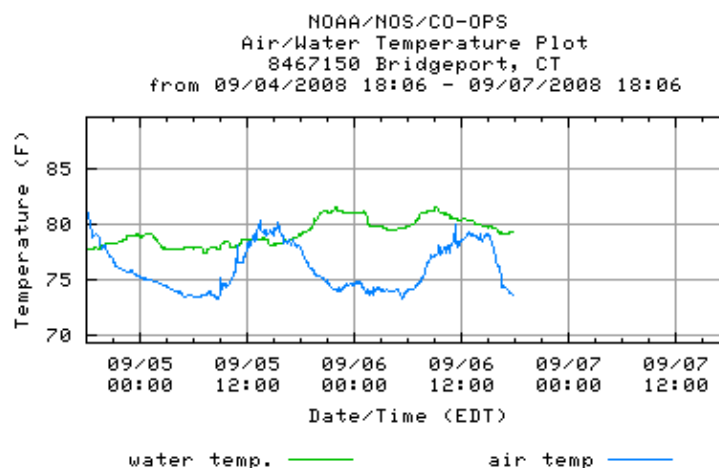
Bridgeport, CT - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Barometric Pressure: 1006.3 mb

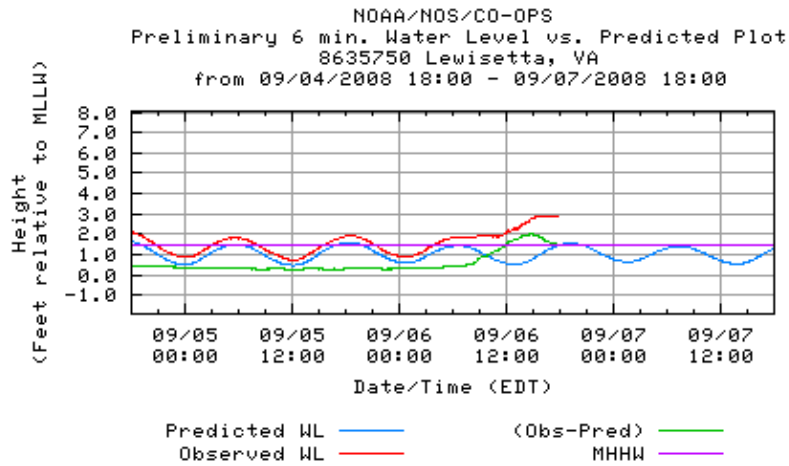
Bridgeport, CT - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Water Temperature: 79.3° F Air Temperature: 73.6° F

Lewisetta, VA - Station Map [Return to List](#)

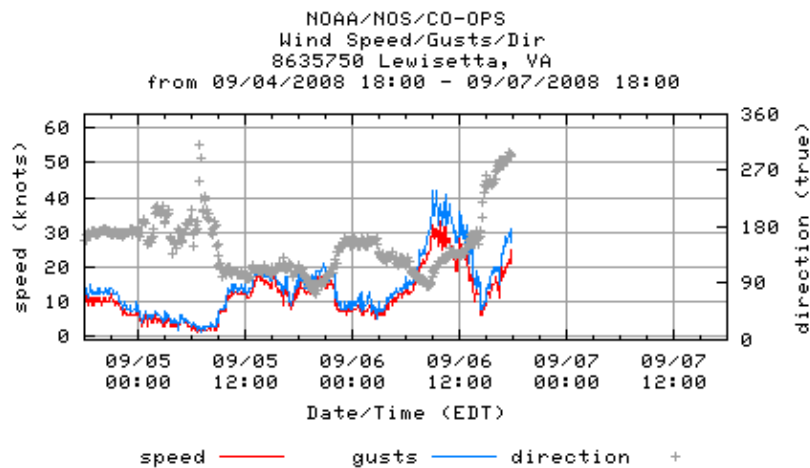


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 2.89 ft. Predicted: 1.44 ft. Residual: 1.45 ft.**

Historical Maximum Water Level: 02/05/1998, 2.33 ft. above **MHHW**

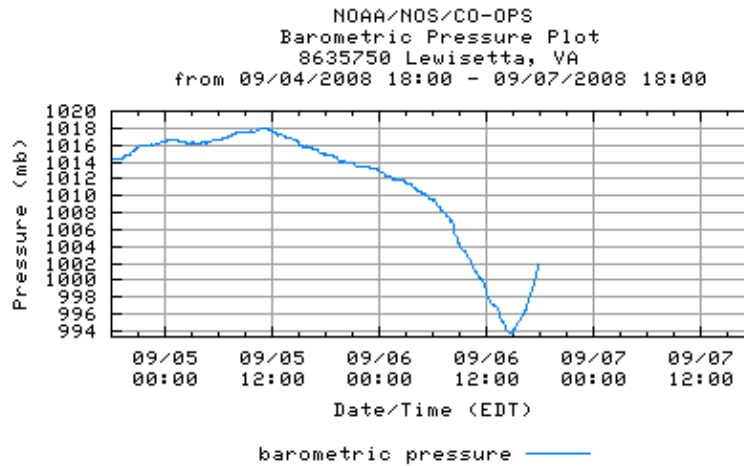
Lewisetta, VA - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 25 knots Gusts: 31 knots Direction: 295° T

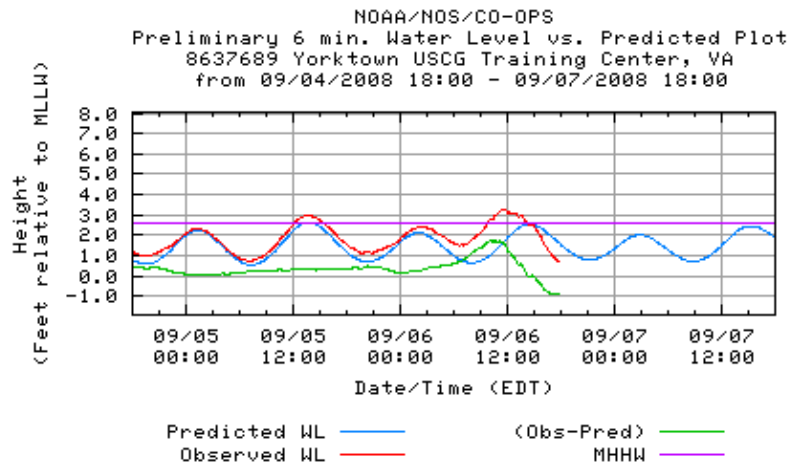
Lewisetta, VA - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Barometric Pressure: 1001.8 mb

Yorktown USCG Training Center, VA - Station Map [Return to List](#)

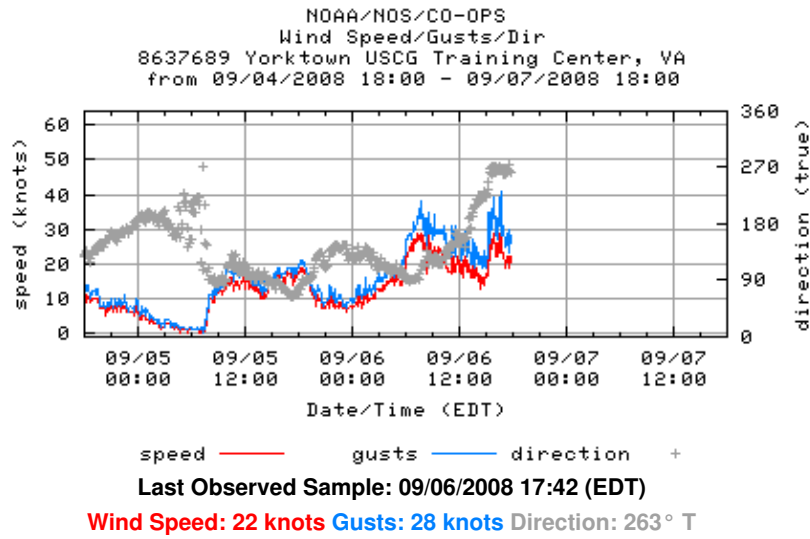


Last Observed Sample: 09/06/2008 17:48 (EDT)

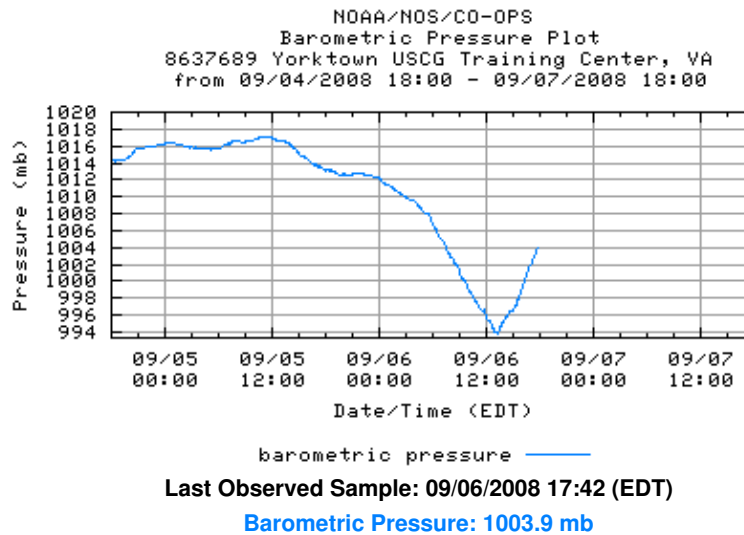
Relative to **MLLW**: Observed: 0.69 ft. Predicted: 1.61 ft. Residual: -0.92 ft.

Historical Maximum Water Level: n/a

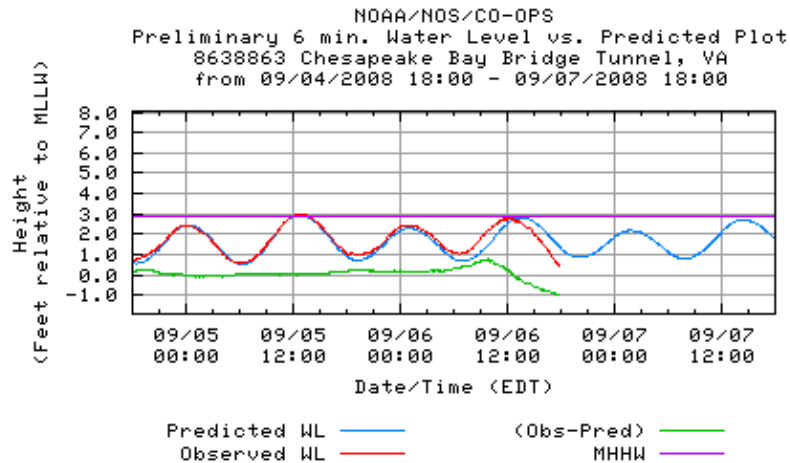
Yorktown USCG Training Center, VA - Station Map [Return to List](#)



Yorktown USCG Training Center, VA - Station Map [Return to List](#)



Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)

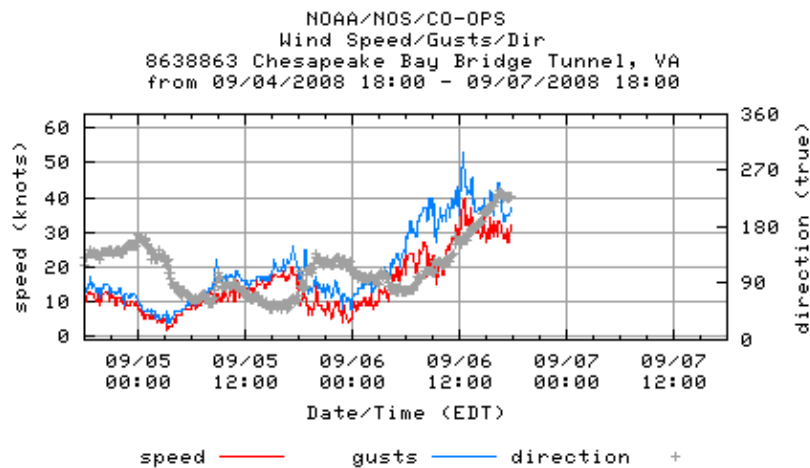


Last Observed Sample: 09/06/2008 17:48 (EDT)

Relative to **MLLW**: **Observed: 0.43 ft. Predicted: 1.40 ft. Residual: -0.97 ft.**

Historical Maximum Water Level: 02/05/1998, 3.68 ft. above **MHHW**

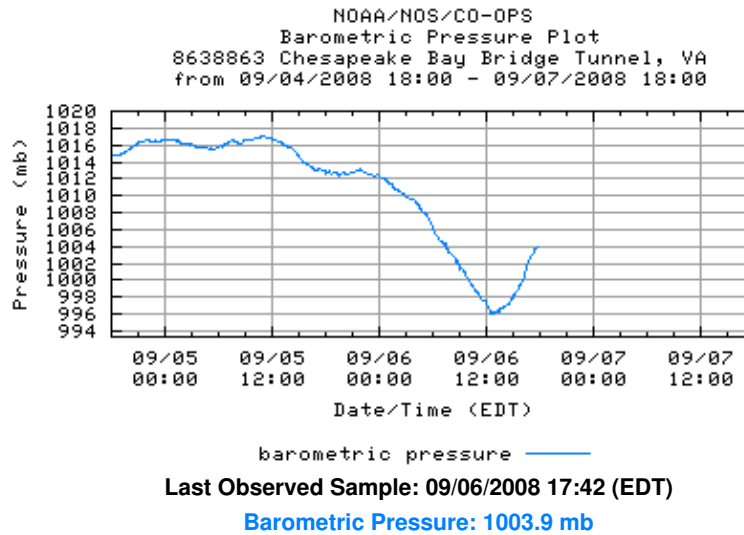
Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



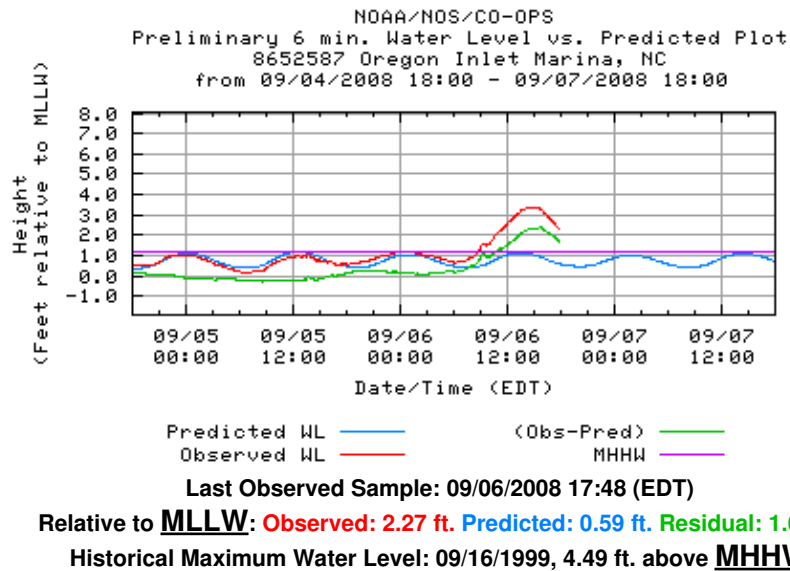
Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 32 knots Gusts: 37 knots Direction: 228° T

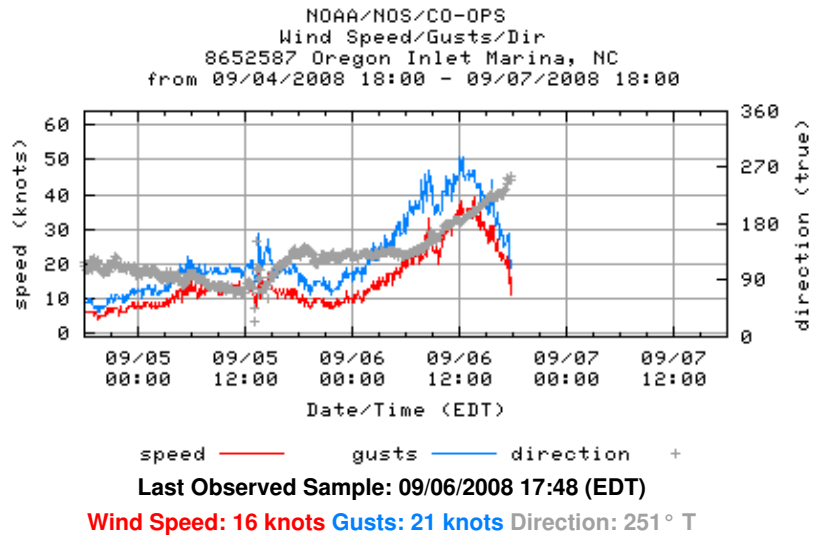
Chesapeake Bay Bridge Tunnel, VA - Station Map [Return to List](#)



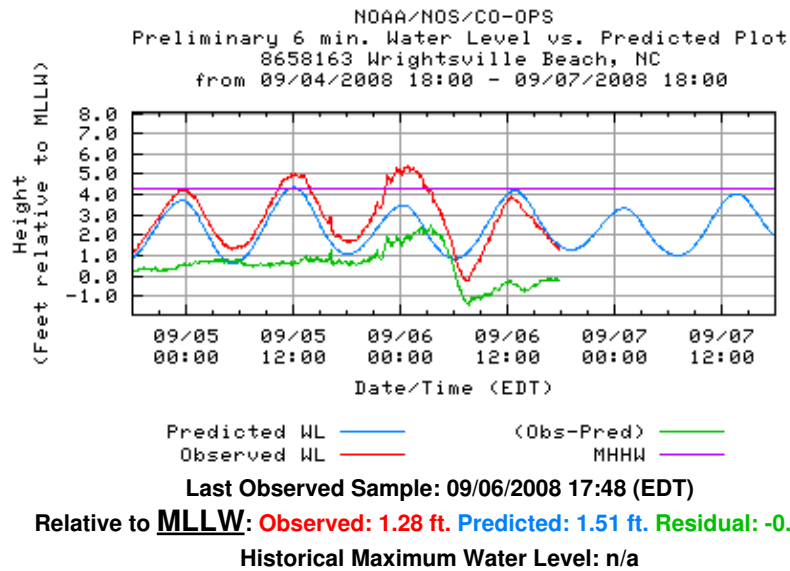
Oregon Inlet Marina, NC - Station Map [Return to List](#)



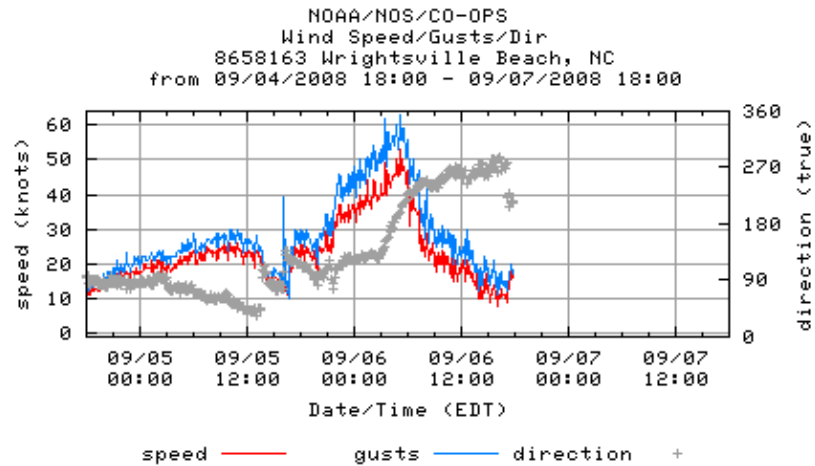
Oregon Inlet Marina, NC - Station Map [Return to List](#)



Wrightsville Beach, NC - Station Map [Return to List](#)



Wrightsville Beach, NC - Station Map [Return to List](#)



Last Observed Sample: 09/06/2008 17:48 (EDT)

Wind Speed: 16 knots Gusts: 17 knots Direction: 217° T

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce